

Express Mail No.: EU943994431US

**NEW UTILITY PATENT APPLICATION
TRANSMITTAL**

DOCKET NO.
END920030070US1
(IEN-10-5788)

TOTAL PAGES IN THIS SUBMISSION
3

22388 U.S.PTO
10/715690



**TO MAIL STOP PATENT APPLICATION
COMMISSIONER FOR PATENTS**

P.O. Box 1450
Alexandria, VA 22313-1450

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled:

HIGH WIREABILITY MICROVIA SUBSTRATE

invented by:

IRVING MEMIS

assigned to

INTERNATIONAL BUSINESS MACHINES CORPORATION
Armonk, New York

If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation

☐ Divisional

☐ Continuation -in -part (CIP)

in prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 29 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☒ Cross References to Related Applications (*if applicable*)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (*if applicable*)
 - d. ☐ Reference to Microfiche Appendix (*if applicable*)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (*if drawings filed*)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure
3. ☒ Drawing(s) (*when necessary as prescribed by 35 USC 113*)
 - a. ☒ Formal
 - b. ☐ InformalNumber of Sheets 2

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4. ☒ Oath or Declaration
- a. ☒ Newly executed (*original or copy*) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney

Application Elements (Continued)

5. ☐ Incorporation by Reference (*usable if Box 4b is checked*)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (*Appendix*)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all must be included*)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (*identical to computer copy*)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers (*cover sheet & document(s)*)
International Business Machines Corporation, Armonk, NY
9. ☐ 37 CFR 3.73(B) Statement (*when there is an assignee*)
10. ☐ English Translation Document (*if applicable*)
11. ☒ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (2)
14. ☒ Certificate of Mailing
☐ First Class ☒ Express Mail (*Specify Label No.*): EU943994431US
15. ☒ Application Data Sheet
16. ☐ Additional Enclosures (*please identify below*):

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FEE CALCULATION AND TRANSMITTAL

CLAIMS AS FILED

1) For	2) Number Filed	3) Number Extra	Rate	Additional Fee
TOTAL CLAIMS (37 CFR 1.16(c))	30-20 =	-10-	x\$18.00	\$ 180.00
INDEPENDENT CLAIMS (37 CFR 1.16(c))	4 - 3 =	- 1 -	x 86.00	\$ 86.00
First Pres. Of Multiple Dep. Claims	= 0		x 290.00	\$ 0.00
Basic Fee				\$ 770.00
			TOTAL	\$ 1036.00



A check in the amount of _____ to cover the filing fee is enclosed.



The Commissioner is hereby authorized to charge and credit Deposit Account No. 09-0457
as described below. A duplicate copy of this sheet is enclosed.



Charge the amount of \$1036.00 as filing fee.



Credit any overpayment or any deficiency.



Charge any additional filing fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,

Date: 11/17/03

By: William H. Steinberg

William H. Steinberg, Reg. No. 28,540
IBM Corporation
IP Law Dept IQOA/040-3
1701 North Street
Endicott, NY 13760
(607) 429-3979

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Memis

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Serial No.
To be assigned

Filing Date
Filed Herewith

Examiner

Group Art Unit

Invention:

HIGH WIREABILITY MICROVIA SUBSTRATE

I hereby certify that the following documents

New Utility Patent Application Transmittal

Application Data Sheet

Patent Application comprising 20 pages of specification, 9 pages of claims,
1 page of Abstract and 2 sheet of drawings

Declaration and Power of Attorney for Patent Application

Assignment and Recordation Cover Sheet

IDS Submission Statement with 1449 Form

Two (2) Acknowledgement post cards

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

11/18/03.

Georgia Y. Brundage

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence)

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